

WE CLAIM:

- 1        1. A metal carrier for a catalyst comprising:  
2            a honeycomb structure shaped in a cylindrical form, said honeycomb structure  
3            having a plurality of air vents extending in an axial direction thereof; and  
4            a cylindrical case covering an outer peripheral surface of the honeycomb structure,  
5            wherein the cylindrical case is composed of ferritic stainless steel containing Mo.
  
- 1        2. The metal carrier for a catalyst according to claim 1, wherein the Mo content in  
2            the ferritic stainless steel is in the range of  $0.30 \text{ wt\%} \leq \text{Mo} \leq 2.50 \text{ wt\%}$ .
  
- 1        3. The metal carrier for a catalyst according to claim 1, and further including a  
2            muffler housing wherein said cylindrical case is disposed within said muffler housing and is  
3            displaced a predetermined distance relative to an interior wall of the muffler housing to  
4            form a space therebetween.
  
- 1        4. The metal carrier for a catalyst according to claim 1, wherein the honeycomb  
2            structure is constructed of ferritic stainless steel that does not contain Mo.
  
- 1        5. The metal carrier for a catalyst according to claim 1, wherein the Mo content is  
2            1.20 wt%.
  
- 1        6. The metal carrier for a catalyst according to claim 1, and further including a  
2            catalyst layer of a noble metal formed on the honeycomb structure.
  
- 1        7. The metal carrier for a catalyst according to claim 6, wherein the noble metal is  
2            platinum.

1           8. A metal carrier for a catalyst comprising:

2           a honeycomb structure having a catalyst layer formed thereon, said honeycomb  
3           structure having a plurality of air vents extending in a flow direction through the  
4           honeycomb structure; and

5           a cylindrical case covering an outer surface of the honeycomb structure, wherein the  
6           cylindrical case is composed of ferritic stainless steel containing Mo.

1           9. The metal carrier for a catalyst according to claim 8, wherein the Mo content in  
2           the ferritic stainless steel is in the range of  $0.30 \text{ wt\%} \leq \text{Mo} \leq 2.50 \text{ wt\%}$ .

1           10. The metal carrier for a catalyst according to claim 8, and further including a  
2           muffler housing wherein said cylindrical case is disposed within said muffler housing and is  
3           displaced a predetermined distance relative to an interior wall of the muffler housing to  
4           form a space therebetween.

1           11. The metal carrier for a catalyst according to claim 8, wherein the honeycomb  
2           structure is constructed of ferritic stainless steel that does not contain Mo.

1           12. The metal carrier for a catalyst according to claim 8, wherein the Mo content is  
2           1.20 wt%.

1           13. The metal carrier for a catalyst according to claim 8, wherein the catalyst layer  
2           is a noble metal formed on the honeycomb structure.

1           14. The metal carrier for a catalyst according to claim 13, wherein the noble metal is  
2           platinum.